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LASA TRAVEL-TIME DATA AT THE SDL

5 December 1966

Prepared For

AIR FORCE TECHNICAL APPLICATIONS CENTER Washington, D. C.

By

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EARTH SCIENCES DIVISION TELEDYNE INDUSTRIES, INC.

Under

Project VELA UNIFORM

DDC DEC 10 1566 WILLIAM LAU

Sponsored By

ADVANCED RESEARCH PROJECTS AGENCY Nuclear Test Detection Office ARPA Order No. 624

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LASA TRAVEL-TIME DATA AT THE SDL

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Project Title: Seismic Data Laboratory

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ABSTRACT

Travel-time data at the SDL, as read from LASA films for approximately 400 events, are presented for users. These data have been used for computing travel-time anomalies which are included in SDL reports No. 147 and No. 159.

1. <u>INTRODUCTION</u>

During the last six months, SDL has been accumulating relative travel-times at the Montana Large Aperture Seismic Array with a view towards computing travel-time anomalies at the 21 subarrays. It appears that these raw data are in demand and may be of some use to the seismic community in general. Therefore, this report contains all pertinent travel-time data which have been used for the following previously published reports:

"Relative Travel-Time Anomalies at LASA and the Location of Epicenters using SHIFT," by E. F. Chiburis, SDL Report No. 147.

"LASA Travel-Time Anomalies for Various Epicentral Regions," by E. F. Chiburis," SDL Report No. 159.

The data in the Appendix are listed in the same order as given in SDL Report No. 159, except that more events are now included and some regions have been slightly re-defined.

The following numbered explanation, with references to the first page of the Appendix, describes the method of presentation:

- 1. Arbitrary region name
- 2. Direction of approach
- 3. Distance range for events included in region
- 4. Azimuth range for events included in region
- 5. Event date and name
- 6. PDE latitude
- 7. PDE longitude

- 8. PDE depth
- 9. PDE origin time
- 10. Arrival time in seconds*:

First row, left to right: B1, B2, B3, B4,

C1, C2, C3

Second row : C4, D1, D2, D3,

D4, E1, E2

Third row E3, E4, F1, F2,

F3, F4, AO

11. Arrival time, hour and minute at LASA

Note: As only relative times were needed, absolute times may not be correct. Clock corrections prior to December 1965 were not obtainable.

It is requested that any use or presentation of these data be appropriately acknowledged.

*An arrival time of "0." indicates no reading made at that subarray.

APPENDIX

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U •	1) •	1) •	14.00	10.00	16.40	17./0	0.20
<u></u>	12.05	10.911	14./5	72.22	13.00	14.65	
1/•110	16.96	15.75	21.70	14.05	00.60	12.27	
10 JANOA		52 54		94 U. E	25.	09 11 50 • 0	
47.89	46.011 6.	4/.5.	4/.05	47.50	48.50	49.05	0.85
15.72	40.21	117.2	97.10	47.00	45.05	⇒1.•8H	
111-17					411.70	47.68	

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17.03	1/.25	10.45	10.22	10.45	1/•/0	17.11	1200
12.80	1/.35	10.31	10.50	14.62	12.15	21.10	
18.52	13.45	1/.50	22.01	⊥ ბ•პ∪	10.00	16.78	
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23.61	23.95	43.10	22.00	22.90	24.20	23.85	2005
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25.20	20.00	63.411	24.50	23.15	10./5	23.43	
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21.42	32.06	24.02	21.00	20.40	50.26	90.50	
54.21	47.06	22.84	28.00	22.05	45.05	52.35	
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	43.48	37.8n	3/.95	37.41	11.27	40.00	38.93
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	34.58	28.70	29.13	-	32.17		79.99
	30.70	24.50	30.78	30.20	30.68	21.90	32.55
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	21.30	15.75	19.95	17.30	U (• U I)	1/.911	10.95
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0	2 MAROD	SAKHLIN I.		UU - N 144		350.	13 04 15.6	
	39.38	34.05	39.25	38.88	38.81	40.00	39.92	1314
	38.70	34.4E	40.65	39.12	37.80	37.6n	42.75	
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	54.77	37.25	0 •	54.05	53.49	53.29	98.32	
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	54.48	54.89	54.24	53.93	53.98	55.07	54.80	0859
	53.75	54.08	25.64	24.10	52.94	52.70	57.77	
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		E SEA JAPAN	43 48	UU. N 139	54 UU. E	210,	02 01 42.4	
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-	36.60	3/.62	38.50	36.90	35.80	39,65	40.78	
	38.83	34.80	37.52	42.50	37.15	31./0	37.30	
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	12 JANOS			00. N 14/		033.		0149
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	11.25	12.20	23.15	11.00	0.0	10.10	15.30	
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ž.	32.68	29.20	31.85	36.12	31.30	26.53	31.53	
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	45.01	49.3n	44.78	44.51	44.54	45,54	45.22	0630
	74.24	4>.31	10.02	44.58	43.62	45.00	40.01	
	46.19	42.08	45 45	49.41	44.12	39.93	44.94	
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· 1	30.5B	34.00	42.45	30.30	0 •	19.85	
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25.20	50.35	26.95	25.40	24.65	24.75	28.80	
26.80	23.0g	25.55	U •	25.30	21.35	25.90	
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65.52	63.35	03.95	J•	41.70	61./2	65.80	
64.00	6y.8n	03.51	61.20	69.6/	58,33	63.03	
23 MAY06	HUNSHU	30 00	00. N 139		026.	08 34 44.4	
10.02	10.20	u9.73	u9.45	09.65	10.55	10.07	0852
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	50.26	וול ז 51	>1./3	>0+18	49.70	50.17	53.73	
	51.10	40.5H	U •	24.30	49.50	46.00	50.89	
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	44.16	45.48	0.	44.22	43.72	44,45	47.62	
	45.13	42.48	46.60	48.25	43.28	40.98	44.90	
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	48.21	48.27	U •	47.35	46.98	47.53	50.69	0.2.
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20 MAYOS		25 24	00. N 128		058.	02 53 4	
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 56.13	5/.02	27.6K	26.32	22.25	55,60	59.25	
57.85	54.711	27.15	60.60	56.55	52.50	56.8u	
 ZI FEBOO	N.E. TAIWATI	50 10	00° N 15>	42 00 · E	103.	13 13 47	-
54.05	54.3A	23.90	23.02	53.68	0 •	54.32	1331
 53.40	54.30	74.YR	23./2	0 •	52./5	56.45	
55.25	52.13	24.22	ンじ・ リと	54.10	49.70	54.12	
16 NOV05	RYUKTU IS	25 24	0. N 125	12 U. E	77.	17 05 37	7.9
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 U5.00	06.93	U7.58	U6.34	U 5 • 3 U	05.32	08.93	
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 28 MAY06	TAIWAN	24 24	UU. N 122	30 00. E	033.	00 03 50) + B
0 •	20.72	26.35	25.90	20.07	26.75	26.72	0017
 25.82	20.62	27.38	20.17	25.23	25.18	28.82	
21.75	24.65	20.50	30.40	26.60	0 •	26.42	
	TAIWAN	24 () 5	0. N 155	30 U. E	63.	16 31 2	. 8
48.02	48.15	41.73	41.42	47.62	48.50	48.05	1644
 47.22	46.1n	48.95	U •	40.55	46,27	50.29	
49.19	46.01	48.00	51./U	40.02	43,50	47.93	
 23 MAR 66		23 18	0. N 122	48 U. E	51.	00 04 3	1.7
63.05	63.40	02.90	62.50	62.55	63.45	63.30	0017
 62.40	63.18	03.8	02.05	01./0	61.62	65.50	
64.20	61.44	03.15	60.02	03.03	58.60	63.00	

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40.02	37 · QD	47.55	40.00	39.20	36.28	40.47	
42.65	34.25	31.20	44.00	43.10	36.18	*	
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31.20	31.68	31.51	30.95	30.72	31,67	31.98	0002
31.07	31.87	32.00	31./1	30.00	54.55	32.38	
- 33.60	3u • 3n	21.24	34.45	34.15	27.15	31.40	
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30.50	31.11	30.82	30.32	3 y • y y	30.88	31.21	0/10
30.38	30.09	<u> </u>	31.12	24.34	28,44	31.5/	
32.90	29.63	2/.51	34.20	U •	26.43	30.70	
US AUGUO E		49 54	U9. N U78	00 00 • E	U•	03 57 58	
30.42	3u • 98	30.82	30.20	30.00	31.00	31.31	0410
_	30.10	0.	31.00	29.47	28.58	37.90	
30.32	29.51	27.59	34.20	33.48	26.5n	30.72	
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21 Juli09 K	31.81	31.57	31 • 44	Su . 76	31.77	32.08	0410
31.19		32.31	31.05	- 30+19	29.31	32.38	
31.00	30.03		35.00	34.21	2/.15	31.45	
33.61	30.28	U •	U. N U7H		0 •	04 57 57	• 9
21 MUV92 K		49 48		30.15	31.20	31.45	0510
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30.45	30.211	31./11	31.20	33.50	26.63	30.88	
33.10	29.711	27.5F	U •			04 57 57	• 7
13 FEBOL K	AZAKH		00 · N 78	00° 00 • E	0.	31.50	0510
30.73	31.27	31.04	30.51	30.25	28./3	31.82	
311.50	30 • 3 n	31.8H	31.32	29.00		30.97	
33.14	27.84	27.82	34.52	33.73	26.75	30.77 03.57.58	
- 21 APROS	CAZAKH	49 48	• N 78			31.43	0410
30.62	31.19	31.01	30.30	30.23	31.13		0,10
30.51	30.29	U •	31.25	29.50	20./2	31.80	
33.03	29.80	41.6h	34.4/	33.68	26.60	30.93	
13 HUAPP 5		43 48	00. N 08/	48 UU. E	059.	04 33 53	n 446
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	43.20	42.00	48.05	46.69	40.15	44.48	
46.42	40.5						

PAGE 1					11 55 00	
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13 41 09 • 1	19.		lv 72	41	23.08	22.58
23.28 13!	22,90	55-19	22.40		55.14	22.50
23.39	23.18	51.52	23.10	23.43	51.00 55.10	24.80
22.82	19.04	25.40	25./0	TA.05	FUZHK-SNKG	
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24.26	23.98	23.19	23.38	24.06	24.05	23.61
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26.32 075	26,00	25.30	25./0	26.08	26.22	25.64
26.40	24.00	24.80	26.30	26.45	25.43	0 •
26.02	22.38	28.59	26.74	23.02	25.13	27.90
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18 53 08.5	026.		UU. N U37	44 24	. CAUCASUS	12 JUL 66 W
37.42 190	36.62	36.09	30.15	37.37	3/.12	36.61
36.18	0.	U•	38.04	37.23	35.87	37.08
37.10	34.13	40.92 .	3d./U	32.02	3/.40	39.38
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55.37		23.4H	22.81	55.10	22.51	23.35	1217
23.32		22.011		55.27	20.00	21.30	
25.11		17.50	23.99	27.65	21.14	23.15	
	6 YUGUSLAVIA		00. N 016		33.	U2 31 08•0	
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71.57		10.0x	12.12	10.29	U •	U •	
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57.94		58.98	26.40	57.73	57.84	U •	0405
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10.32	10.73	11.29	10.70	10.07	110.20	11.22	0214
11.17		10.67	11.92	10.22	08,42	09.19	
12.78	11.68	U5.65	11.08	15.00	09.14	10.93	
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22.68	23.12	23.12	23.13	22.43	22.04	23.54	0310
23.57		11 •	24.33	85.29	20,60	21.63	•
25.20	24.27	TP • 01)	24.03	27.6u	21.48	23.33	
	S. GREERE		00 · N 051		₹51•	12 05 03.2	
29.22	24.71	SU.28	29.10	29.11	59.55	30.04	1217
30.10	20.38	J .	30.65	29.20	27.53	28.13	
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25.87	25.09	18.83	24.02	28.14	22.44	24.08	
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59.80	60.22	00.13	00.19	59.00	59.12	60.60	1320
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62.30	61.13	25.33	6 •	64.28	58.45	60.36	
28 MOVO:	DODECANESE	<u> ১০ ৮০</u>			89•	אל לט לט לט לט לט ליי	
45.95	40.31	40.00	46.50	45.65	45.80	46.75	0538
46.72	42.51	70.17	4/.4/	45.00	44.22	45.05	·
48.20	4/.30	41.511	41.45	() •	44.55	46.45	
11 MARO	S CRETE	34 24	U. N 24	24 U. F	55.	20 01 43.8	
34.10	34.511	Û •	34.45	33.06	34.01	34.95	2014
34.80	33.21	34,45	Ų•	54.05	32.34	33.03	
36.22	35.45	69.05	35.25	36.55	33.00	34.71	
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413.115	40.57	40.77	46.40	41.05	40.10	48.83	0403
43.80	47.31	98.47	99.50	4/.90	46.20	47.20	
511.35	44.19	4,5.0%	49.50	52.20	46.37	48.5b	
21 APRO		34 48		. t	52.	UP 45 58.U	
15.47	15.90	16.57	15.00	15.28	15.35	16.20	0 258
10.22		n •	10.40	12.32	13.01	14.58	
11.75	10.04	11.65	10.05	77.00	14.50	10.08	

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1430		53.50	52.12	52.34	22.88	23.51	53.22	52.70
		52.3	50.80	52.18	23.98	23.211		53.17
		53.20	0 •	56.63	54.58	0 •	53.42	55.15
	10.5	12 22 0	026.		00 N U41		TURKET 1	
1235	0,10	09.36	08.61	u8.13	UB • 62	U9.2A	09.00	08.42
1202		08.07	06.52	08.04	09.79	09.03	07.72	
		08.94	06.22	12.35	10.40	U4.29	U9.14	10.90
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0129		08.49	07.76	07.30	U/•8U	U8.44	08.12	07.64
		07.30	05.71	07.21	09.00	08.27		U8.12
		08.17	05.45	11.68	U9.63	u3,53	08.30	10.10
			1E 4700				MIH-AILANIIC	
	37.0	10 08 3					N ATL RIDGE	
1016		0 •	35.60	0 •	36.32	37.16	36.43	35.68
,		33.60	33,48	36 • UU	30.28	36.11	34.27	37.03
		36.59	35.70	0 •	36.82	28.90	U •	39.30
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0028		0 •	0 •	Üe	13.42	U •	U •	() •
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	02.8	10 34 0	024.	U6 UU. W	00. N 034		N ATL UCEAN	
1042		69.51	68,28	67.93	08.91	09.72	69.02	60.23
		66.45	65.97	68.47	70.82	0 •	66.85	69.54
		69.18	68.02	15.75	69.//	01.53	71.25	72.06
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		60.41	59.93	66.62	60.10	29.83 22.96	58.10 62.77	62.98
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2057		62.72	61.51	61.95	62.70	03.18	62.34	61.83
-11-7		58.86	60./4	62.81	03.77	01.5H		01.63 03.42
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21174		21.43	20.30	20.56	21.42	41.16	21.00	0 •
		17.48	19.46		55.12	20.45	19.38	22.18
		21.41	22./0		19.10	Ų •	24.15	22·85
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2359		48.60	47,52	U •	() •	40.08	40.14	v •
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		ALMID-ATLANII						U96-101AZ
		MID AIL RUG	00 54			33.	02 51 31	
	18.JU	48.20	48.90	48.82	48.51	47.65	48.30	v 333
	9.30	47.65	47.45	U •	44.25	48.30	45.00	
	18.18	51.00	45.35	44.70	50.48	51.50	48.48	
01	BONAL	MID AIL KUG	00 36	ל20 א יטט	24 00. W		19 25 50	
U	0.00	00.00	00.00	00.00	16.60	15.90	16.52	1938
, I	7.42	00.00	15.45	UU • U U	17.35	16.47	13.22	
. 1	6.37	19.07	13.45	13.00	18./5	19.22	16.66	!
12	JUN66	S ATL UCEAN		00. S 020			20 20 58	
2	8.12	20.13	28.80	26.81	20.45	27.70	28.30	2033
2	Y . 30	2/150	₹7.3 0	29+00	29 a 40	28.60	25.12	
2	7.97	30∙95	25.62	24.60	30.22	31.35	28.49	
		WEST INDIES					_	112-118AZ
- 4	-	MUNA PASSAG		00. N 06/		028•	21 58 46	
	3.93	33.68	34.57	34.91	34.82	33.20	0 •	2206
3	5.50	33152	32.27	34.98	36.8/	35.95	0 •	
4	12.50	38.32	U •	27.0/	35.46	41.20	34.25	I
13	BONAL	VINGIN 13.		00 N 064	42 UU . W	41.	10 30 91	
5	3.90	53.70	24.65	54.66	54.60	53.20	53.92	1038
	5.50	53.38	>2.40	55.1/	56.55	55,45	49.20	
. 5	2.90	58.45	51.82	4/.45	U +	60.68	54.30	
16	JULOB	VINGIN	18 12	UU. N U64		130 •	20 09 51	•1
5	1.30	51 • 0 4	21.98	52.18	51.98	50.51	51.21	2017
	2.74	- 50 +80	49.0 ₍₁	>2+3/	>3198	53.02	46.68	
4	9.98	55.56	U •	44./4	52.87	58.00	51.59	
24	APPOO	LEEWAND 19	17 42	- N 60	36 . W		23 04 03	
3	15.92	35.63	36.62	U •	36.50	35.23	35.88	2312
- 3	7.47	3>.45	0 •	07:15	38.57	37,22	31.37	
	5.02	40.38	33.58	29.65	38.00	42.00	36,23	<u> </u>
		LEEWAND 15.		00. N 061				
	7.78	21.52	28.7g	() •	28.46	26,90	27.72	0808
2	4.30	0.	26.19	28.93	30.44	29,22	23.22	
	0 •	32.13	45.57	U •	29,68	34.10	28.18	
		W. INUIES -						118-121AZ
		WINDWARD 15		UU N U62		156.	17 45	
_	7.73	1/.32	18.17	18.50	18.40	16,98	17.45	U920
	8.93	1/.30	0 •	18.50	0.	19.67	13.30	
	6.10	21.6n	16.80	11.45	U •	24.12	18.00	
14	MAYOU	VENEZUELA	10 30			16.	20 2/ 27	
	U ·	33.23	34.10	34.43	34.30	32.85	33.30	2036
	90	33.28	-01.95	0 •	30.20	35,08	29.30	
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	54.72	62.95	50.88	46 . 61	0 •	5/.25	50.55
	01 52 38.3	42.	24 U. W	U. N 97	16 30	DAXAUA MEX	
0158	52.83	53.28	54.76	54.6U	53.75	53.08	54.00
	50.68	58.03	56.65	23.11	21./0	54.53	54.52
	53.73	61.65	49.25	45.88	28.63	55.87	49.30
	04 15 59.8	92.	36 gg. w	UU. N 93	15 54		DO PEROS
0418	48,34	48.68	50.30	20.10	49.20	48.75	49.40
	45.80	53,35	52.15	99.03	7.1 8	49.73	50.20
	49.33	57.4p	45.60	41.28	23.25	51.83	45.22
	02 00 44.0	43.	12 00 W	UU. N 94		DAXAGA MEX	
0207	13.70	0 •	15.78	15.28	14.55	13.90	14.80
	11.22	18.75	0 •	14.30	12.20	12.10	15.50
	14.60	22.05	10.55	U6.65	18.80	16.90	0 •
***************************************	12 29 29 1	51.	24 U. W	0. N 94	15 18	DAXACA MEX.	
1235	59.90	60.10	61.88	61.50	00.75	60.20	60.85
	57.40	64,62	03.65	0 •	28.65	61.30	71.65
	60.75	68.80	0 •	52.00	05.02	63.15	56.40
	09 10 54.5	22.	12 U. W	J. N 93	14 30	CHIAPAS MEX	
0917	37.18	37.39	39.15	38.85	38.03	37.42	38.12
	34.5B	42.03	41.01	37.85	35.95	0.	38.92
	38.05	46.14	34.36	30.08	41.87	40.67	34.80
	00 55 19.8	53.	00 0. W	U. N 93		CHIAPAS MEX	
0101	60.74	60.88	0 •	62.35	01.62	61.03	61.72
	58. 08	14.60	04.40	01.25	U •	62.11	(2.52
	61.60	69,62	57.81	53.00	05.40	64.20	57.42
	15 110 46.0	40.	54 00 . W	00. 11 092	14 18	CHIAPAS	
15117	28.33	0 •	0 •	29.98	0 •	20.62	U •
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	29.1B	37.20	25.42	21.20	u.	31.88	25.10

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TOT THERE C	PATRAL AMENI	UA				14 42 22.9	1
17 JANOS G		14 00 0	NO. N 081	42 UU. W	126.	05.55	1448
0.	62.05	03.35	03.92	U •	0.		1 1
64.17	63.70	ņ •	66.35	66.10	67.15	59.75	
59.30	10.00	00.86	25.32	99./1	71.20	63.30	
13 MAROE P		14 24	U. N 85	24 U. W	2/•	21 46 22.0	
21.12	गर•ण५	21.26	21.80	22.17	20 • 41)	20.10	5123
	21.3R	G •	U •	23.95	24.59	17.31	
22.13	24.00	23.00	13.22	18.50	20.711	21.13	
17.41	L SALVADOR	13 48	U. N 89	42 U. W	108.	19 50 07.6	
	50.48	2/.11	5/.02	មិប្រត្រូវ	56.20	56.13	1956
0.	-	24.95	56./5	59.92	0 U •	53.46	
5/.95	00.	00.1K	49.18	>3.65	64.70	51.04	
53.15		4 3 40	00. N 089	48 UU. W	71.	115 33 40 • 2	-1 A -
	EL SALVADUR	39.60	30134	30102	34,07	34.73	0940
35.61	34.08		35.49	U •	39.39	32.00	
30.48	30.03	U·		- - 32+32 -	43.56	35.55	
31.70	30.33	06.73	00. N U88		201 •	20 17 49.3	
01 JUL66	EL SALVADUR	_	00. 14 000	00	0.	0.	21724
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16 116005	EL SALVA.TA		00. N 080	04-10	62.40	00.00	0529
00.00	70.00	00.00	00.00	_	66./0	59.35	
+4.15	63.42	# U • U U	63.05	60.00	70.90	63.15	
59.32	62.75	05.05	22.35	00.00		08 20 59 4	
13 JUI 66		12 36	00. N 08/	42 UU - W	061.	66.71	0827
7.47	60.66	07.57	08.1/	00.00	66.70	63.78	.,,
68.41	6/./0	05.41	6/.42	10.32	70.95	6/.42	
63.90	70.39	10.20	24.12	04.73	75,28	18 50 55 • 0	
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של של שער חו	OSTA KIDA	09 54	00 · N 083	42 UU. W	33.	18 19 28 61	
43.82	43.28	43.95	44.55	44.64	43.04	43.19	1926
44.79	43.05	41.8R	43.74	40.53	47.00	39.70	
0 •	40.98	45.87	30.29	U •	U 2	43.88	
TIS APROS C	USTA RICA	09 24	U . N B4	12 U. W	40•	02 34 23 • 0	
16.64	60.12	06.16	6/.34	6/.50	65.80	65.95	024:
(7.62	60.76	04.76	06.70	69.39	69.68	62.70	
() •	69.65	08.95	59.14	04.41	74.18	60.62	
25 JANOB P	ANA-CUST R	U8 48	UU. N 82	48 UU. W	71.	16 59 53.0	
44.80	44.23	45.01	45.53	45.72	44.11	44.14	170
U •	44.90	42.8B	44.96	47.63	48.08	40.8,	
41.60	41.87	46.93	31.42	42.64	52.38	44.80	
TO MAYOO C	USTA RICA	UB 24	• N 83	• W	37.	U2 30 05 • 0	
62.90	62.32	02.95	63.60	63.70	62.09	62.11	0537
73.80	63.00	01.00	63.00	65.55	66.04	58.85	
59.60	65.40	04.95	55.3/	60.90	70.32	62.93	
UI APROS S	U PANAMA	U5 (16	U. N 82		39.	15 19 51.8	
16.0/	15.52	16.25	16.83	16.92	15.31	15.33	1526
17.00	19.18	14.14	10.13	18.68	19.30	12.27	
12.8/	10.92	18.37	U () •	14.05	23.45	16.13	
15 APHOD S	O PANAMA	U5 HU	U. N 82			06 42 59.7	6 £ 12 .
24.67	54.50	24.83	25.40	25.59	24.00	24.00	065
25.65	24.83	22.81	24.7/	27.38	27.90	20.88	
21.52	21.63	27.00	1/.53	22.68	32.00	24.71	
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		O COLUMBIA				033.	03 09 34 • 4	
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	35.15	32.00		30.75	3/.03	35.37	10 06 14.0 35.70	4 (4 4
	00.12	30.00	U •	30.03	30.70	39.13	31.80	1014
	34.11	34.17	36.83	29.15	0 •	43.60	36.23	
	_	CULUMBIA				144.	10 24 44.0	
	15.57	12.13	15.90	16.40	10.45	14.86	15.11	1033
		17.75	13.74	0.	1,0 + 41	18.48	11.27	1000
	13.47	19.11	10.50	UB.0/	15.20	22.92	15.65	
		O CULUMBIA				152.	U8 18 23.9	
	55.40	54.88	25.011	56.13	56.20	54.50	54.83	0826
	50.50		- 11.	25.02	28.13	58.15	51.02	0020
	53.12	50.88	26.10	40.40	22.05	62.05	55.52	
		. CULUMBIA					20 00 07.0	
	39.63	37.12	39.90	40.30	40.40	38,85	39.10	2008
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	66.67	60.98	03.70	58.43	65.69	72.00	65.58	
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,	-	42.55	43.15	43.00	43.70	42.15	42.50	0924
	42.45	42.90	41.12	43.40	ַ װַסּיּלִיי	45.75	38.80	0727
	44.20	46.4(1	1.1.1	36.00	42.65	50.22	43.15	
	40.70 21 DEC05 N			00. N 073		172.	12 25 43.0	
				13./0	13.80	12.10	12.40	1234
	Ú •	12.0g	11.05	13.40	15.70	15.70	98.60	150.
	14.10		13.65	UD. YD	12.00	20.00	13.05	
	10.65 20 FEBOO N	10.50		00. N 73		152.	04 10 27.5	
	59.0d	50.00	29.37	59.92	60.00	0.	58.62	0418
	60.32		27.23		0.	61.97	54.80	0 120
	5/.63	62.64	29.91	52.12	50.80	66.39	59.22	
		COLUMBIA		00. N 073			00 10 30.5	
		U.	0.	63.20	03.23	61.68	61.88	0018
	12,50	62.4g	00.00	62.9/	72.20	65.40	58.12	001
	43.60	60.02	03.17	25.50	02.10	69.78	62.53	
	(1).40			JU. N U73		168.	04 19 59.3	
	UO JANOU N	24.25	29.90	30.55	0.00	28.95	29.40	0428
	り・ 3月・デン	27.71	27.71	00.00	U •	32./e	25.40 25.50	V 72, V
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		1. COUUMBIA 80.6c	24.4/	54.dd	55.09	53.35	53.59	0404
	54.11	つり・0 c つりゅうひか	72.27	74.02		57.10	49.84	U 'U '
	55.34	•		4/.14	53.00	61.49	54.18	
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24 माहिक	FUUADUR	117 30	00. 5 177	36 19. *	194.	23 10 58-0	
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16.43	12.30	13.54	12.51	18.48	18.57	11.70	
12.73	10.45	17.60	00.00	13.00	24.28	17.40	
RM TAHEO	PL MURECU	03 54	0.3 80	24 U. N	17.	17 29 18.4	
11.34	50.67	37.44	22.06	4 .	20.17	54.64	1538
	91.90	17.25	21.40	23.42	U .	97.65	142501
44.36	54.62	23.17	44.03	41.66	26.13	51.33	
17 Min 50	PARUTECUAD	US 18	00. 5 07/	ua ua. *	182 -	G# 02 09.6	
20.00	24.45	45.40	25.05	65.60	24.10	0.	2511
23.91	22.00	U +	25.10	77.00	25.45	21.25	
28.00	27.90	£0.50	10.40	0.	31./0	24.95	
58 DEC02.1	PPRIMEC.	03.12	UU. S UT!	19 000 8	54.	04 UE 24.1	
UB • 0 0	0.4 • 0.0	40.0U	00.00	102.24	69.70	60.85	0417
1.2.40	01.5%	29.70	01.20	73.70	64.42	57.67	
not the	04.55	03.24	24.71	59.11	60.12	01.40	
Zu AUDOG	PENU*EC UDA	p3 12	00. 5 07/	12 DU. W	110.	0/ 43 27.6	
59.00	54.68	34.74	22.36	>>.40	53.02	53.97	0752
25.60	54.711	72.75	24.74	27.17	57,08	51.02	
51.80	57.50	20.41	40.00	23.00	61.30	54.60	
23 HAROS	PERU-BRAZIL	97.15	U . 5 74	48 U. N	137.	21 57 09.6	
67.35	U.	0 -	UB-13	0 •	06.08	06.75	2207
HH.33	p7.5p	0.	47.52	U9.90	10.43	04.50	
04.75	10.37	09.35	01.1¢	40.44	13./5	07.4H	
SI HAYSE	PERD*URAZIL	UH 116	+ 5 074	24 . H	160.	87 44 50 · U	5,000,000
M +	21+10	£1.00	22.36	£2.54	20.43	51.05	0754
22.63	21.77	19.86	21.03	24.15	24.01	18.15	-12-1-12
19.05	24.45	e3.35	15.33	eu-12	21.47	21.63	
UP SEREO	TIZAME+UNIT	08 12	UN+ 3 074	15 01" *	150.	04 04 03.7	
07.71	8/+14	47.42	44.3/	48.45	06.91	0/.94	0414
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PAGE 11 22 00 101-281AZ 650 - 2900 KM CUDITIONIAL V S ****AVERAGES NOT VALID*** 04 35 24 . 8 00. N 074 08 110. 29 JULOU CHASE YTT 36 0441 59.00 0 . 61.21 4.0 U. 55.34 8 Q + 26 14 . 0 . 02.73 02:00 17.4 17 + 60.60 r1.00 0 . 04.42 24.30 20.02 60.52 02 04 38.3 Au - 18 3; 30 00. K 071 00 00. 1 022+ 0247 HIDDUINT 21 0CT09 £ 50.60 57.55 en.cu 11.0 0.4 37.70 4. 02.29 W * 112.72 00.55 20.12 0.4 59.30 TI . 0 . 9+ 27.01 40 10 21 33.5 0 + 57.00 21 44. U + M. 30p 1023 20 51 CHEGHAND 93 арыпе 21.33 25.15 u. 24.00 22.011 22.41 21.25 24.00 33.55 U . 21.62 22.27 U. 23.00 13.42 23.72 33.40 15:11 24.13 31 75 38 .0 15.40 111. 0158 U. . 4 10 3 JAHOR HEXTO 0. 59.50 01.00 00.00 50.05 29.15 58.00 ****** 66.25 05.10 U. 77.44 59.40 01.70 0 . 69.10 44.02 44.24 09.80 11 47 49.0 00.00 52.00 39 . U. N 111 24 0. 4 41 48 1149 17 HAROS UTAH 16.01 21.00 00.00 00.00 18.63 17.20 22.50 14.47 21.72 20.00 10.30 .05 .50 10.00 19.67 23+UR 17.27 24.54 40.23 15.42 32.10 10+84 16 41 01-7 23.30 go gg. H 008. 0u+ N 120 12 SEPSS DU CALIFORD 39 24 1043 63.00 65.42 05.95 59.02 03.14 50.78 64-17 58.83 10.56 54.70 67.23 67.75 54.5 64.07 63.82 +3.32 72.77 64.10 16 27 59.3 .. 54.37 59.30 23. 24 0. 1534 47 61.40 THE STATE 0. 57 00122 0. U+ 0 . 40.0 U. 00.00 37.50 are. 28.30 Ub. Uh 59.75 51.75 . 53.40 11.0 53.05 . 0.00

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13. ABSTRACT				
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data have been used for computing travel-time anomalies which are included in SDL reports No. 147 and No. 159 .

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